

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2016
DateRun: 09/15/2016
Experimenters: Carla De La Cruz
ClientType: Jewelry Mfr
ProjectNumber: Project #3
Substrates: Aluminum
PartType: Coupon
Contaminants:
Cleaning Methods:
Analytical Methods:

Purpose: To find the best fit product for cleaning Leach Garner's Burn Free #5 Lubeatube P9616A from copper and stainless steel surfaces meant to resemble the cleaning of precious metals.

Experimental Procedure: Coupons of stainless steel and copper were selected and arranged on trays, so that each cleaner had an assigned set of each surface. Before taking initial weights coupons were wiped down with Kimwipes. After taking weights the coupons were promptly soiled and reweighed. All cleaners were gathered in respective bottles and beakers. A stir bar was used in conjunction with a heating plate equipped to stir the solutions. The coupons were added to the beakers three of a kind at one time, and then allowed to sit in the stirred solution at room temperature for 5 minutes while observations were taken. Finally, clean weights were taken at the end of all the testing.

Results:

| Cleaner | Initial wt of cont. | Final wt of cont. | %Cont Removed |
|--------------|---------------------|-------------------|---------------|
| FluoSolv CX | 0.0807 | 0.0071 | 91.20 |
| | 0.0803 | 0.0072 | 91.03 |
| | 0.1170 | 0.0063 | 94.62 |
| FluoSolv NC | 0.1046 | 0.0223 | 78.68 |
| | 0.0957 | 0.0183 | 80.88 |
| | 0.0940 | 0.0160 | 82.98 |
| Vertrel Sion | 0.1258 | 0.0001 | 99.92 |
| | 0.0897 | 0.0000 | 100.00 |
| | 0.0746 | 0.0000 | 100.00 |
| Solstice PF | 0.0950 | 0.0037 | 96.11 |
| | 0.1286 | 0.0040 | 96.89 |
| | 0.1666 | 0.0032 | 98.08 |

Summary:

Conclusion: